



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application of:

DONALD HERZOG, et al

Serial No.: 10/810,322

Confirmation No.: 8016

Filed: March 26, 2004

For: MAPPING AND TRACKING BLOOD

FLOW USING REDUCED ELEMENT

PROBE

Group Art Unit 3737

Examiner: Not Yet Assigned

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Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, applicant and his attorney respectfully request that the following patents and publications be made of record in the official United States Patent and Trademark Office file relating to the above-identified application. The citation of the following patents and publications should not be construed as an admission that they constitute prior art with respect to the present invention.

U.S. Patent Nos.

5,148,810	5,840,033
5,261,408	5,911,692
5,291,892	5,922,962
5,409,010	5,928,151
5,546,807	5,971,927
5,623,930	6,066,096
5,701,898	6,135,971
5,808,962	6,148,095
	6,238,346
	6,524,253
	6,682,483

Non-Patent Literature Documents

- C. KASAI, K. NAMEKAWA, A. KOYANO and R. OMOTO "Real-Time Two Dimensional Blood Imaging Using An Autocorrelation Technique", IEEE Transactions On Sonics and Ultrasonics, Vol. SU-32, no.3, pp 458-464, May 1985.
- K. FERRARA and G. DeANGELIS, "Color Flow Mapping", Ultrasound in Medicine and Biology", Vol. 23, no. 2, pp 321-345, March 1997.
- T. BUCK, et al., "Flow Quantification In Valvular Heart Disease Based On The Integral Of Backscattered Acoustic Power Using Doppler Ultrasound", PROC. IEEE, Vol. 88, no. 3 pp 307-330, March 2000.

All of the above-listed references are in the English language. In such circumstances, comments concerning the relevance of the foregoing references are considered unnecessary.

In order to facilitate the Examiner's citation of the patents and publications listed above, applicant's attorney has completed United States Patent and Trademark Office Form PTO/SB/08 (formerly PTO-1449). The completed Form is attached hereto for the Examiner's convenience.

No fees are believed to be due in connection with the submission of this

Information Disclosure Statement. If any such fees are due, the Examiner is hereby authorized to charge them to Deposit Account No. 501402.

Respectfully Submitted,

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet of 1

Complete if Known				
Application Number	10/810,322			
Filing Date	March 26, 2004			
First Named Inventor	Donald Herzog			
Art Unit .	3737			
Examiner Name	TBA			
Attorney Docket Number	93184/00012			

	U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.1	Document Number 2 Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		US- 5,148,810	09/1992	Maslak, et al.			
		US- 5,261,408	11/1993	Maslak, et al.			
·		US- 5,291,892	03/1994	O'Donnell			
		US- 5,409,010	04/1995	Beach, et al.			
		US- 5,546,807	08/1996	Oxaal, et al.			
		US- 5,623,930	04/1997	Wright, et al.			
		US- 5,701,898	12/1997	Adam, et al.			
		US- 5,808,962	09/1998	Steinberg, et al.	•		
		US- 5,840,033	11/1998	Takeuchi			
		US- 5,911,692	06/1999	Hussain, et al.			
		US- 5,922,962	07/1999	Israk, et al.			
		US- 5,928,151	07/1999	Hossack, et al.			
		US- 5,971,927	10/1999	Mine			
		US- 6,066,096	05/2000	Smith, et. al.			
		US- 6,135,971	10/2000	Hutchinson, et al.			
		US- 6,148,095	11/2000	Prause et al.'			
		US- 6,238,346	5/2000	Mason			
	·	US- 6,524,253	2/2003	Abend			
		US- 6,682,483	1/2004	Abend			
	·	US-					

	FOREIGN PATENT DOCUMENTS							
Examiner Cite Initials No.1	F	oreign Patent Do	cument	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant		
		Office ³	Number ⁴	Kind ⁵ (if known)	MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T ⁶
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Examiner	Date	
Signature	Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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Cubatituda for form 4440B/DTO	Complete if Known					
Substitute for form 1449B/PTO		Application Number	10/810,322			
INFO	DRMATIC	ON D	ISCLOSURE	Filing Date	March 26, 2004	
STATEMENT BY APPLICANT		First Named Inventor	Donald Herzog			
		Art Unit	3737			
(use as many sheets as necessary)				Examiner Name	TBA	
Sheet	2	of	2	Attorney Docket Number	93184/00012	

OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.1	publisher, city and/or country where published.	Γ2		
		C. KASAI, K. NAMEKAWA, A. KOYANO and R.OMOTO, "Real-Time Two Dimensional Blood Imaging Using An Autocorrelation Technique", IEEE Transactions On Sonics and Ultrasonics, Vol. SU-32, no. 3, pp 458-464, May 1985.			
		K. FERRARA and G. DE ANGELIS, "Color Flow Mapping", Ultrasound in Medicine and Biology, Vol. 23, no. 2, pp 321-345, March 1997.			
		T. BUCK, et al., "Flow Quantification in Valvular Heart Disease Based on the Integral of Backscattered Acousite Power Using Doppler Ultrasound", PROC. IEEE, vol. 88, no. 3, pp 307-330, March 2000.			
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